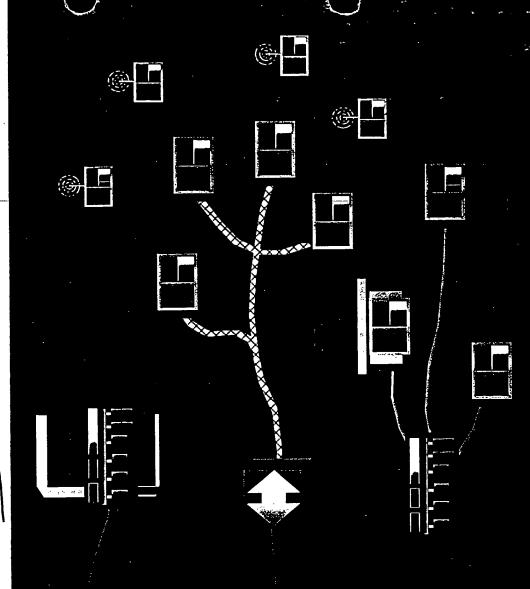
microunity

Figure 2



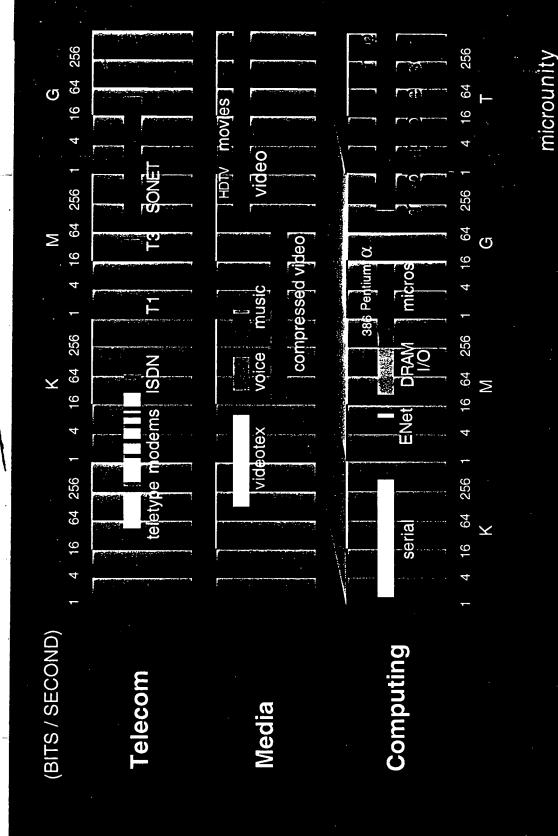
1]-

Figures

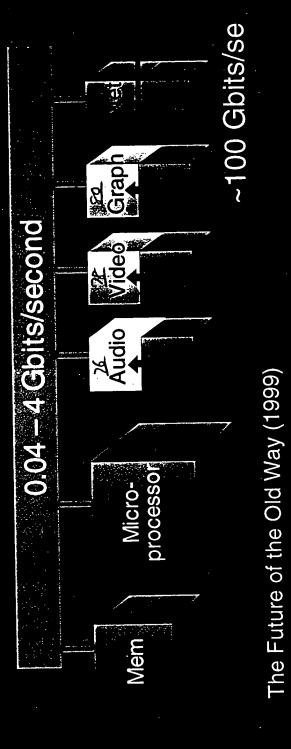
(RITS / SECOND)	¥	9
	1 4 16 64 256 1 4 16 64 256 1 4 16	64 256 1 4 16
Telecom	teletype modems ISDN T1	T3 SONET
		HDTV movjes]
Media	videotex voice music compressed video	video
		386 Pentium α
Computing	serial	
	1 4 16 64 256 1 4 16 64 256 1 4 16 K	64 256 1 4 16 64 256 M

microunity

Fr. Ve 4



France S



single chip

Mem

lower cost

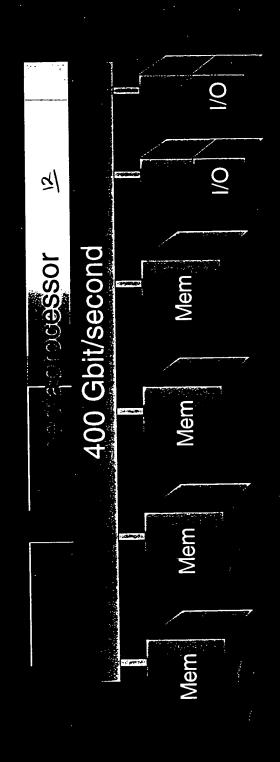
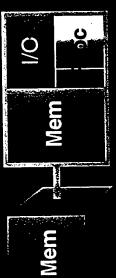
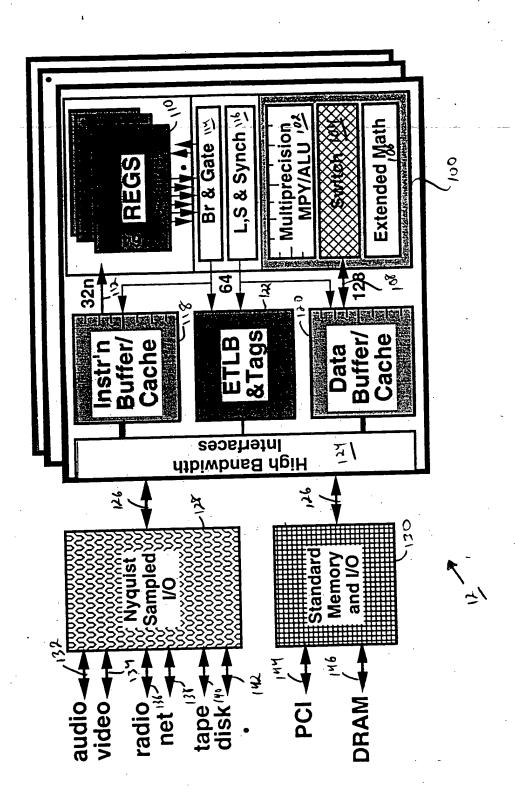


Figure 6

The Future of the Unified Way (1995)

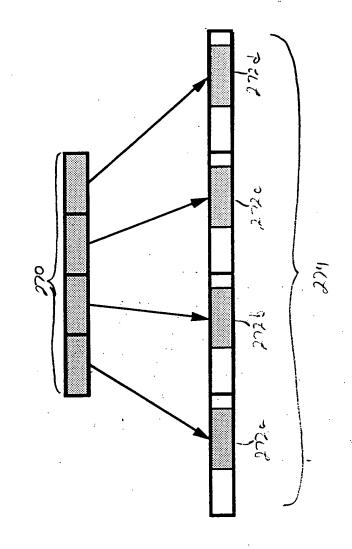


much lower cost

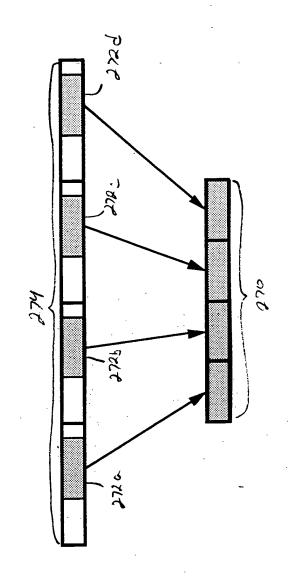


F1500 7

Group Expand

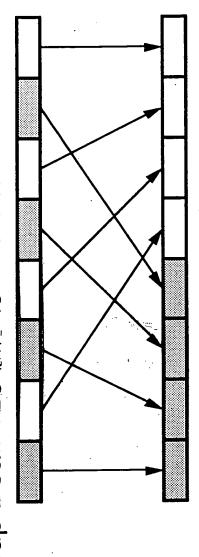


Group Compress, Extract



Group Deal, Shuffle

Group Deal: 128 bits to 128 bits



Group Shuffle: 128 bits to 128 bits

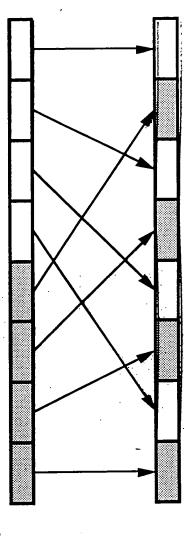
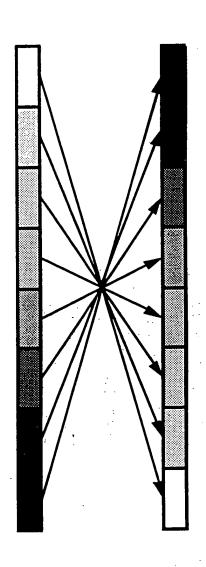


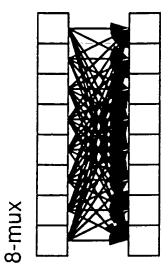
Figure 37d

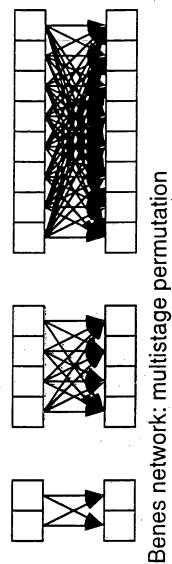
Group Swizzle (Copy-Swap)



Group Permute

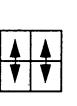
4-mux 2-mux



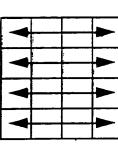


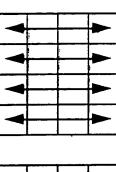
4-mux, two-dimensional (3-stage)

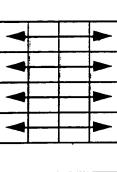
4-mux, 3 stage



16-mux, two-dimensional (3-stage)







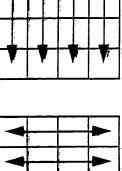
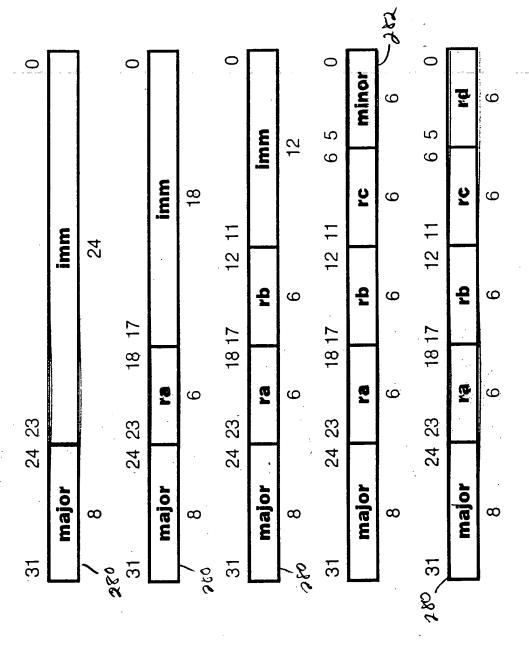


Figure 9(a)

Instruction Formats



081606

F1300 9(6)

Floating-point Data Sizes

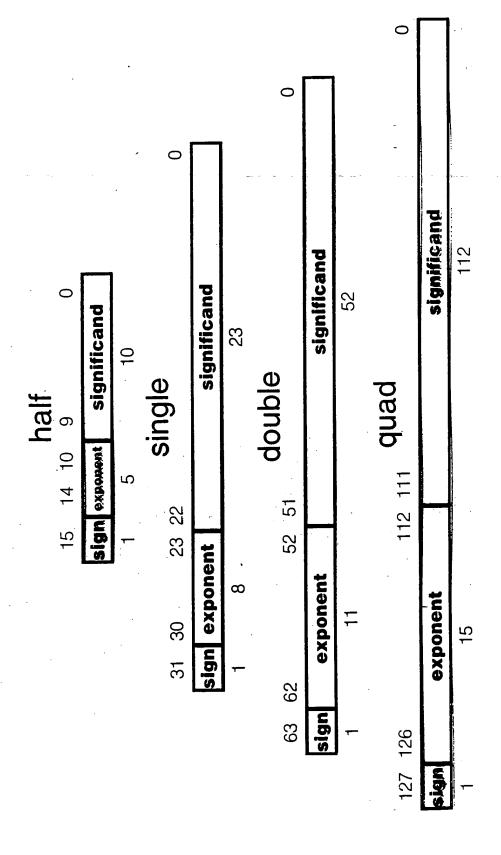
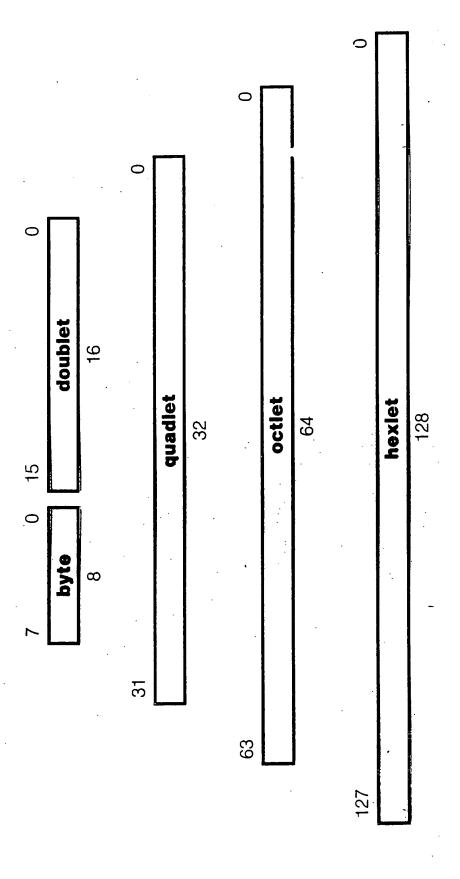


Figure 9(c)

Fixed-Point Data Sizes



F. jure 10(2)

Translation Block Diagram

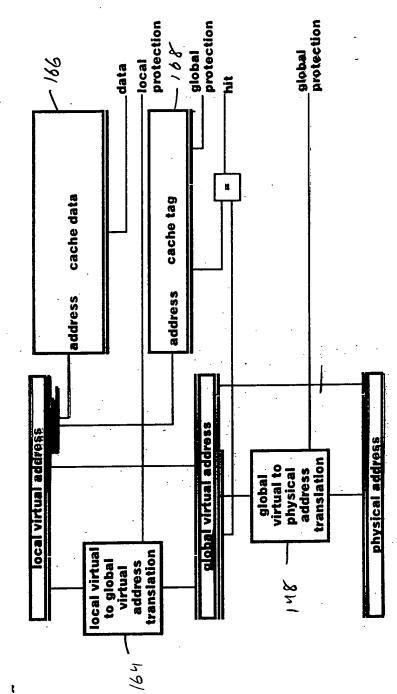


Figure 10(6)

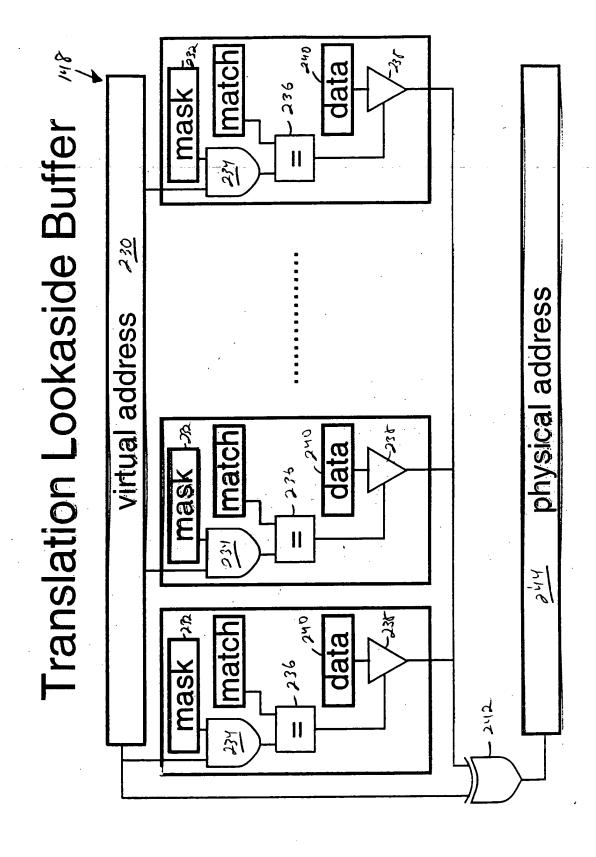
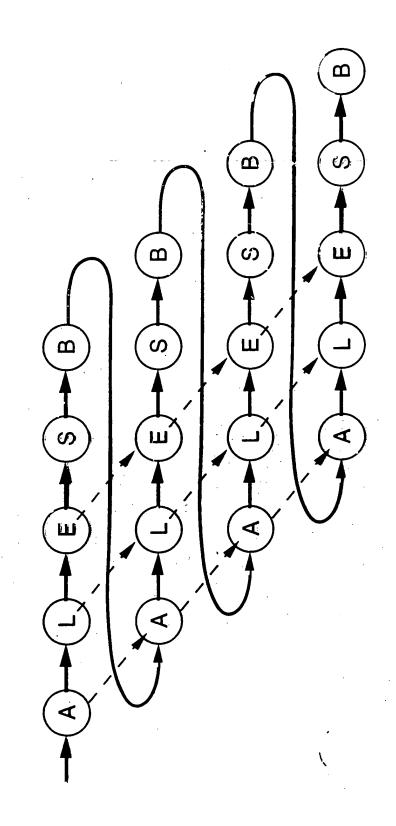


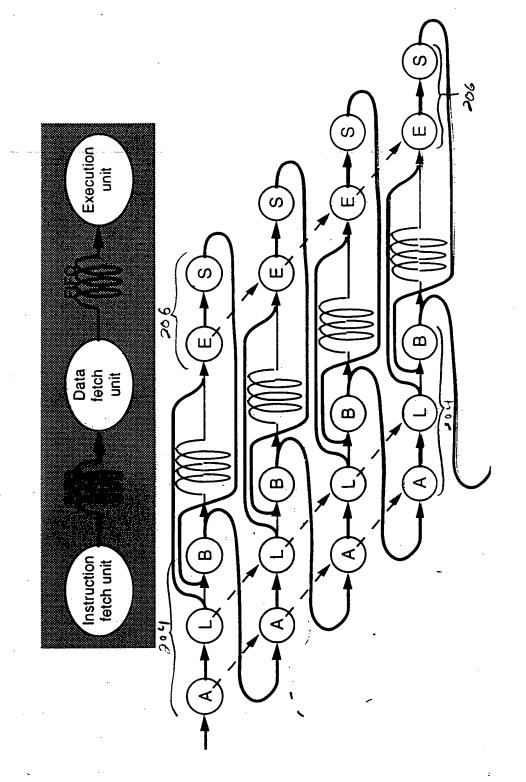
Figure 11

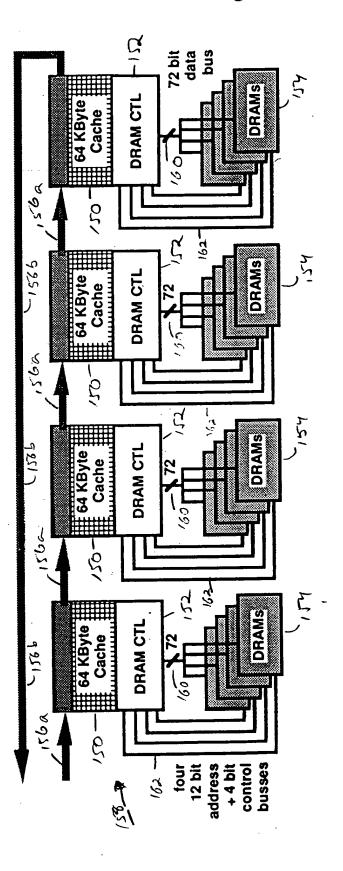
Superstring Pipeline



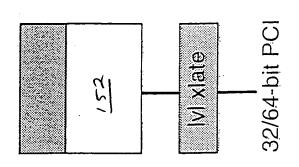
F11 vre 12

Superspring Pipeline





+19, re (3



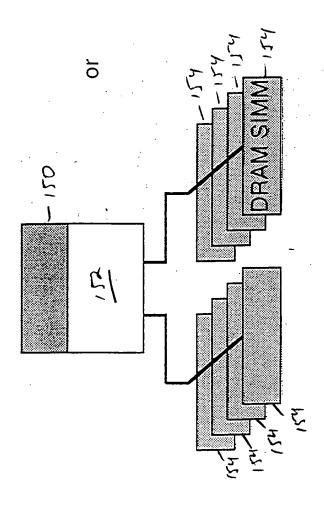
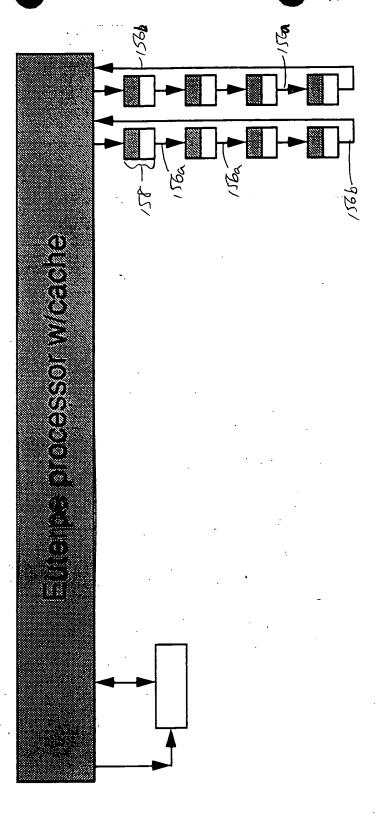


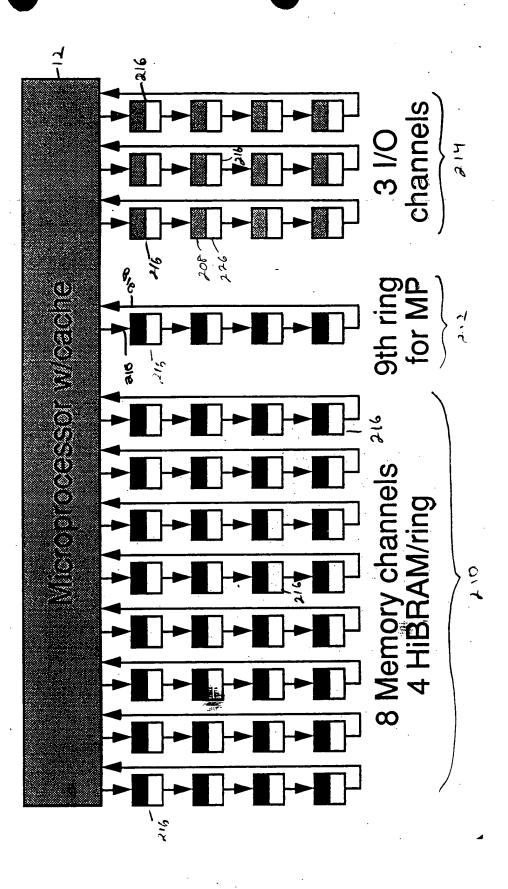
Figure 14

skew calibrator 8 bits data 2 2 skew calibrator

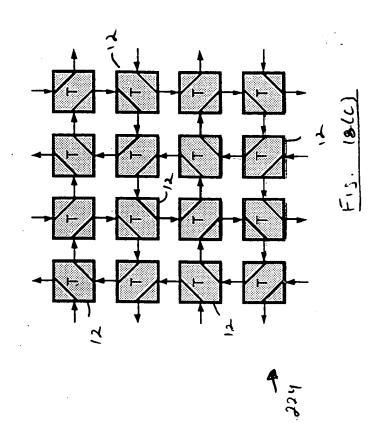
Figure 15



•



write-noallocate read-noallocate write-response read-response write-allocate read-allocate error idle response data 5 0 Figure 17 $^{\circ}$ (1) data d COM ma request 8 E 274 H address H address Write: Read: Error:



F15000 18

1 6

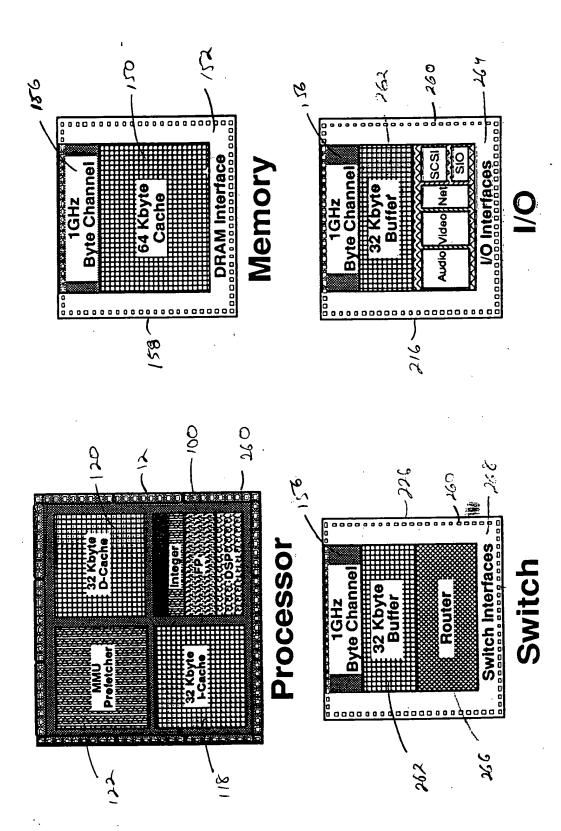


Figure 19

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